

## Abstract

The invention relates to a device for the electrochemical detection of at least one biochemical molecule - contained in a liquid - from a group of predetermined biochemical molecules, having

a means (1) for taking up the liquid, said means having at least one reference electrode (RE) and at least one counterelectrode (GE) and also a multiplicity of working electrodes (AE1, AE2, AE3), at least one working electrode (AE1, AE2, AE3) being provided for the detection of each biochemical molecule, said working electrode being coated with a molecule that is complementary to the respective biochemical molecule, so that the biochemical molecules can be detected simultaneously,

a potentiostat (P) for generating a predetermined voltage profile between the working electrodes (AE1, AE2, AE3) and the reference electrode (RE),

a current/voltage converter (S1, S2, S3) being connected downstream of each of the working electrodes (AE1, AE2, AE3), the current/voltage converters (S1, S2, S3) holding all of the working electrodes (AE1, AE2, AE3) at the same potential and

a means (Ad) for measuring the currents flowing through the working electrodes (AE1, AE2, AE3).

Figure 1